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TITLE: COATED SOLID FUEL
PUBN-DATE: May 31, 1990

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APPL-NO: JP63293678
APPL-DATE: November 22, 1988

INT-CL (IPC): C10L005/00

ABSTRACT:

PURPOSE: To facilitate the production of a coated solid fuel of which the burning time and thermal power can be controlled by molding a mixture of a heat-meltable highly calorific substance with a vegetable org. particulate substance and coating a part of the surface of the resulting molded product with a flame retardant or a non-combustible substance.

CONSTITUTION: A mixture of a heat-meltable highly calorific substance (e.g., paraffin wax, a combustible synthetic resin, a combustible polymer, a mixture

of these with a small amt. of kerosene, etc.) with a vegetable org. particulate substance (e.g., sawdust, wood flour, chaff, etc.) is molded, and a part of the surface of the resulting molded product is coated with a substance comprising a flame retardant or a non-combustible substance (e.g., CaCO_3 , SiO_2 , talc, aluminum, etc.) to produce a coated solid fuel. Thus, the burning time and thermal power of the resulting solid fuel can be controlled, and the fuel is easily produced and suitable for room heating and frost prevention in agriculture as it leaves no harmful burning residue.

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DERWENT-ACC-NO: 1990-213282

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TITLE: Coated solid fuel with adjustable
burning time and heating power - consisting of heat
melting high-energy material and granulated organic
material

PATENT-ASSIGNEE: UBE IND LTD[UBEI]

PRIORITY-DATA: 1988JP-0293678 (November 22, 1988) ,
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PATENT-FAMILY:

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ABSTRACTED-PUB-NO: JP 02142893A

BASIC-ABSTRACT:

A coated solid fuel consists of a heat-melting high-energy material and a granulated plant organic material. The surface of the body is partially coated with a flame retardant or a noncombustible agent.

USE/ADVANTAGE - The fuel has adjustable burning time and heating power, and is

easy to fabricate. When used in agricultural applications, it serves as a frost-preventing or a warming material without generating harmful combustion residue.

In an example, available flame retardants and noncombustible agents include CaCO_3 , MgCO_3 , K_3PO_4 , $\text{Mg}(\text{PO})_2$, SiO_2 , Al_2O_3 , aluminium silicate, $\text{Al}(\text{OH})_3$, talc, and aluminium metal. The retardants and agents are preferred in the form of flame-retarding or noncombustible paper or an applied agent with a binder.

CHOSEN-DRAWING: Dwg.0/4

TITLE-TERMS: COATING SOLID FUEL ADJUST BURN TIME HEAT POWER
CONSIST HEAT MELT
HIGH ENERGY MATERIAL GRANULE ORGANIC MATERIAL

DERWENT-CLASS: H09

CPI-CODES: H09-F;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1278U; 1359U ; 1541U ;
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